Pacific Islands Fisheries Science Center Aquaculture Research 2011/2012

Michael Parke, Ph.D

Current PIFSC Work

Consumers' willingness to pay for aquaculture fish products vs. wild-caught seafood – A case study in Hawaii

Economic relation between marine aquaculture and wild capture fisheries in PICES 2010

Grant Administration for pass through money spent on basic life cycle work for aquaculture

2011/2012 PIFSC Funded Research

WWW geodata service for marine aquaculture operations in the Hawaiian Islands; tool to assist preliminary site evaluation and assessment and comprehensive marine spatial planning

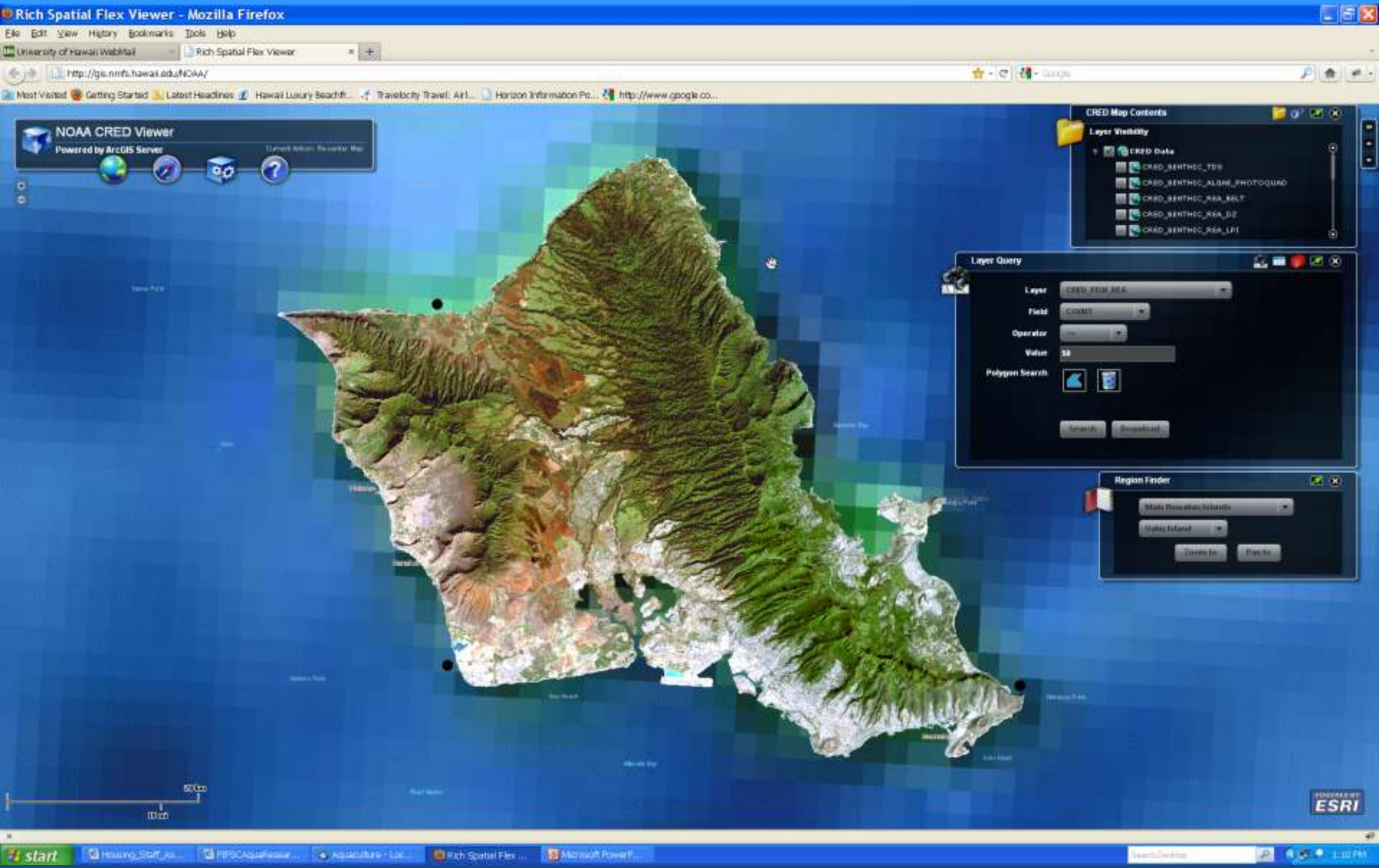
Create a (GIS) and spatial database that provides graphical, tabular, and image data and synthesized information to assist managers in evaluating applications for offshore aquaculture operations in the Hawaiian Islands. This geodatabase will attempt to collect political, socio-economic, biological, geological, oceanographic, human use, and legal information, and be accessible via the world-wide web (WWW) to decision-makers, regulators, researchers, entrepreneurs, and the public. It will enable users to display, query, and download relevant data by topic and by area. Making this geodatabase widely accessible will provide transparency to optimize both site selection and permitting decisions.

2011/2012 Funded PIFSC Research

Comparative Economic Advantage Assessment of Aquaculture Development in Hawaii

Socioeconomic study to better understand market demand for aquaculture products vs. wild-caught fishery products in Hawaii. Will look at shore-based vs. offshore cage culture product types and methods.

Current Web Service


Rich Spatial Flex Viewer - Mozilla Firefox
File Edit View History Bookmarks Tools Help
University of Hawaii WebMail
Rich Spatial Flex Viewer
http://gis.nmfs.hawaii.edu/NOAA/
NOAA CRED Viewer
Powered by ArcGIS Server
CRED Map Contents
Layer Visibility
CRED Data
Layer Query
Layer
Field
Operator
Value
Polygon Search
Region Finder
ESRI
start

Web Service Capabilities and Possible Enhancements

- Display and download multiple data, including economic, legal, political, social, cultural, biological, etc.
- Display and download metadata
- Decision-support tools for site selection, such as co-occurrence, optimization, relative costs/benefits, etc.
- Direct public input and perhaps ranking